2018 LOWER-COST ENVIRONMENTAL DATALOGGER QUICK COMPARISON CHART.

Model, and Manufacturer	Accuracy	Wireless/Bluetooth/USB	Unit Price*‡	Software	Notes
EasyLog EL-USB-2 Lascar www.lascarelectronics.com	T:±0.55℃ from 5 to 60°C RH:±2.25% from 20 to 80%	USB (direct to computer)	$70	EasyLog Free download	No alarm function
LogTag HAXO-8 Humidity and Temp Logger www.techinstrument.com	T: ±0.5°C from 0 to 50℃ RH: ±3% from 20-80% (at 25°C)	USB via docking cradle, $49	$68	LogTag Analyzer Free download	
HOBO Temp/RH Data Logger MX1101 Onset www.onsetcomp.com	T: ±0.21°C from 0 to 50°C RH: ±2.0% from 20-80% (at 25°C)	Bluetooth	$135	HOBOmobile App Free download	
HOBO Temp/RH/Light/External Data Logger U12-012 Onset www.onsetcomp.com	T: ±0.35°C from 0 to 50°C RH: ±2.5% from 10-90% (at 25°C)	USB cable (not included in unit price)	$140	HOBOware Free download HOBOware Pro $75 download	No alarm function, measures light intensity
HOBO 3.5% Temp/RH Data Logger UX100-003 Onset www.onsetcomp.com	T: ±0.21°C from 0 to 50°C RH: ±3.5% from 25-85% (at 25°C)	USB cable (not included in unit price)	$89	HOBOware Free download HOBOware Pro $75 download	
log-EZ RTR-322 TandD www.tandd.com	T: ±0.5°C from 0 to 50℃ RH: ±5% from 15-90%	Wireless between logger and Dongle Data Collector (USB), $69	$110	log-EZ Free download	No alarm function, fixed sampling interval 10 minutes

Model, and Manufacturer	Accuracy	Wireless/Bluetooth/USB	Unit Price*‡	Software	Notes
PEM2 Image Permanence Institute www.imagepermanenceinstitute.org	T: ±0.5°C from -40-65°C RH: ±2% from 10-90%	Portable USB drive (not included in unit price)	$349	eClimateNotebook Web-based subscription $0-900 per year	No alarm function, battery lasts ~10 years
Portable Temperature/Humidity Data Logger with USB Interface OM-143 Omega www.omega.com	T: ±1.0°C from -10-40°C RH: ±3% from 20-80%	USB (direct to computer)	$83	ELusb Software Included on disc	
Tinytag Ultra 2 TGU 4500 Gemini www.geminidataloggers.com	T: ±0.7°C from -20-70°C RH: ±3.0% from 0-95% (at 25°C)	3-pin plug to USB cable, $39. Bundle with software for $29 discount.	$160	Tinytag Explorer $78 on disc. Bundle with cable for $29 discount	
Track-It RH/Temp Data Logger 5396-0203 Monarch Instrument www.monarchinstrument.com	T: ±0.5°C from 0-60°C RH: ±3% from 20-80%	USB (direct to computer)	$79	Track-It Free download	Long Life Battery available for $30 more*
Track-It RH/Temp Data Logger with Display 5396-0201 Monarch Instrument www.monarchinstrument.com	T: ±0.5°C from 0-60°C RH: ±3% from 20-80%	USB (direct to computer)	$119	Track-It Free download	Long Life Battery available for $30 more*

Note: This chart is for reference only. CCAHA does not endorse or recommend any of the above models.
*Price in US Dollars before shipping and tax as of April 2018 from online retailers.
‡All dataloggers should be calibrated routinely per manufacturer's instructions, which may incur an additional fee. See manufacturer's website for information.

Further reading
National Park Service, Comparing Temperature and Relative Humidity Dataloggers for Museum Monitoring.
www.nps.gov/museum/publications/conserveogram/03-03.pdf
Image Permanence Institute, Datalogger Comparison.
www.imagepermanenceinstitute.org/environmental/datalogger-comparison